PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 2003UR029		e Form PCT/ISA/220 there applicable, item 5 below.			
International application No. PCT/US04/15753	International filing date (day/month/year) 20 May 2004 (20.05.2004)	(Earliest) Priority Date (day/month/year) 11 August 2003 (11.08.2003)			
Applicant EXXONMOBIL UPSTREAM RESEARCH COMPANY					
according to Article 18. A copy is being This international search report consists of	transmitted to the International Bureau.	Authority and is transmitted to the applicant d in this report.			
 Basis of the Report a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item. 					
The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).					
		the international application, see Box No. I.			
	unsearchable (See Box No. II)				
3. Unity of invention is lacking4. With regard to the title,	g (See Box No. III)				
the text is approved as submitted by the applicant.					
the text has been established by this Authority to read as follows:					
		·			
	2				
5. With regard to the abstract,					
the text is approved as submit	ted by the applicant.				
the text has been established,	according to Rule 38.2(b), by this Authority	as it appears in Box No. IV. The applicant h report, submit comments to this Authority.			
6. With regard to the drawings,					
N 1	blished with the abstract is Figure No. 1				
as suggested by the ap	•				
	thority, because the applicant failed to sugge				
as selected by this Authority, because this figure better characterizes the invention.					
b. none of the figures is to be published with the abstract.					

Form PCT/ISA/210 (first sheet) (January 2004)

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/15753

Box IV	TEXT OF THE ABSTRACT	(Continuation of Iter	n 5 of the first sheet)
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The technical features mentioned in the abstract do not include a reference sign between parentheses (PCT Rule 8.1(d)).

NEW ABSTRACT

Method for controlling the phase spectrum seismic data to match assumptions inherent in subsequent processing steps. The source signature, after processing with the same initial processing steps (10) used on the data, is used to design a phase control filter (20) that shapes the seismic data (30) to have a minimum phase spectrum or whatever other phase spectrum the subsequent processing algorithms may assume. The processed data is then filtered with a second phase-control filter (60), also designed (50) using the parallel-processed signature, to shape the data to zero phase or whatever other phase may be desired for interpretation of the data.

Form PCT/ISA/210 (continuation of first sheet(3)) (January 2004)

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US04/15753

A. CLASSIFICATION OF SUBJECT MATTER IPC(7) : G01V 1/28						
US CL : 702/17						
	Distributional Patent Classification (IPC) or to both n	ational classification and IPC				
	DS SEARCHED		· · · · · · · · · · · · · · · · · · ·			
Minimum documentation searched (classification system followed by classification symbols) U.S.: 702/17, 14; 367/73						
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched NONE						
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) NONE						
	UMENTS CONSIDERED TO BE RELEVANT					
Category *	Citation of document, with indication, where		Relevant to claim No.			
Α	US 5,173,879 A (CUNG et al) 22 December 1992 (22.12.1992), see see entire document.		1-5			
A	US 5,173,880 A (DUREN et al) 22 December 1992 (22.12.1992), see entire document.		1-5			
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Further	documents are listed in the continuation of Box C.	See patent family annex.				
* S _I	pecial categories of cited documents:	"T" later document published after the inter				
	defining the general state of the art which is not considered to be lar relevance	date and not in conflict with the application principle or theory underlying the inve				
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	which may throw doubts on priority claim(s) or which is cited to he publication date of another citation or other special reason (as	"Y" document of particular relevance; the considered to involve an inventive step	laimed invention cannot be when the document is			
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	published prior to the international filing date but later than the ate claimed	"&" document member of the same patent for	amily			
		Date of mailing of the international search	h report			
	2005 (14.02.2005)					
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Mail Stop PCT, Attn: ISA/US Commissioner for Patents		Donald E. McElheny, Jr. Charm 3 Am				
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